



DYNAUDIO
AUTHENTIC FIDELITY

SUB



Discover the depth: **SUB 500, SUB 300**

Reaching new depths...

Do you know that feeling you get when you experience a large symphony orchestra performing live with large kettle drums? The goose-bumps on your skin when you hear the thunderous sound-effects in a movie? Precise, deep bass you can not only hear but also feel throughout your body enhances the emotional content of the experience. To feel as well as hear, a high performance, "intelligent" subwoofer is an absolute must for any advanced multi-channel audio/video system.

But not all bass is truly deep bass. And positioning a subwoofer is not quite as straightforward as often it is thought to be. The notion that the placement of the subwoofer is uncritical, and that bass can't be localized doesn't really hold true, as correct positioning and adjustment is crucial to achieving an optimized overall performance.

Almost all subwoofers available today require multiple trips back-and-forth to the subwoofer during setup and tuning. Adjusting output level, phase-angle, cross-over frequency - even to a minor degree - requires having to go to the subwoofer again and again until the right balance is found. Making matters worse, adjusting one parameter is likely to influence another, which in turn will require further adjustments and so on.

The new Dynaudio Subwoofer Range.

The solution on offer with the Dynaudio SUB 300 and SUB 500 subwoofers is far more intuitive. Both come supplied with a remote control handset through which all subwoofer parameter settings can be adjusted from there where it matters most: the listening position. Phase, level, cross-over point and extended frequency range are all under direct fingertip control.



On top of this, four fully programmable presets each can store all parameter settings into the subwoofer memory. This way, it is easy to switch from settings ideally suited to a subtle music concert to those more tailored to a gut-wrenching action movie. Recording engineers handle sub-bass in quite a different manner between these

genres, requiring different settings for optimizing the playback of each. The presets can also be used to suit a particular listening scenario, e.g. to remain civil with the neighbors, one could also program in a preset suited for late night listening!

New Features.

In addition to their highly practical adjustment capabilities, both subwoofers offer another remarkable and unique feature: **The Master/Slave function.**

By incorporating multiple subwoofers, it is possible to precisely balance out the unavoidable bass nodes one would typically experience through utilizing a single subwoofer. With multiple subs, even unconventional positioning - such as close to a wall - poses no problem. By using multiple subwoofers in a system, an even and precise bass-response is easily achieved without having to resort to expensive electronic room-correction systems or elaborate room treatment.

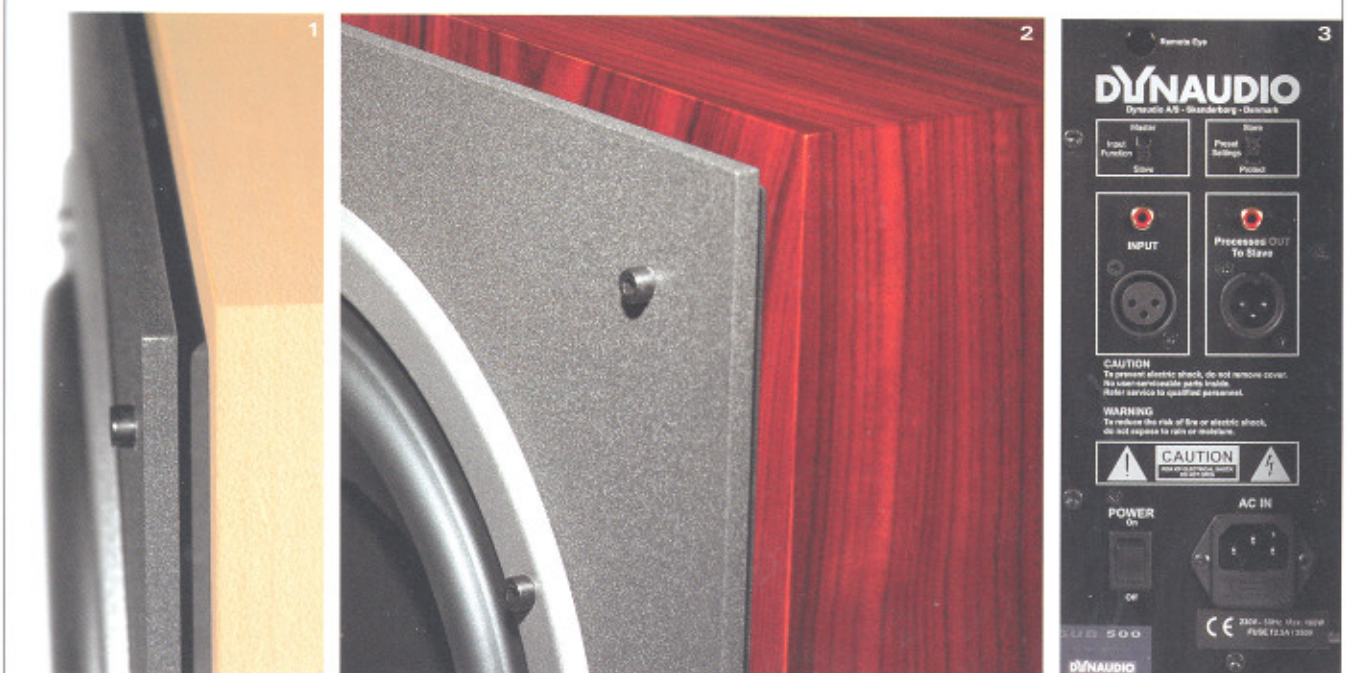
To facilitate a multiple-sub set-up, the SUB 500 and SUB 300 each can be defined as "master" or "slave". A single cable connects each subwoofer to the next, whereby all subwoofers in the daisy-chain will follow the settings of the first subwoofer (Master) without requiring individual adjustments themselves.

To achieve the phenomenal Dynaudio performance, new woofer designs were developed for both models. The SUB 300 thrusts its power through a clever construction, combining a 10" driver in tandem with a bass-reflex enclosure. The SUB 500 adds even more punch, and guarantees impressive low-bass

response through its 12" driver housed in a sealed enclosure. The new drivers feature extremely rigid frames made of die-cast aluminum, geometrically optimized for optimized air-flow. This detail is of great significance, as energy otherwise reflected off the rear of the frame would directly interfere with the precise movement of the cone. The contradictory requirements for an open-frame structure, yet one with high mechanical integrity, presented a true challenge - a challenge readily overcome through Dynaudio's vast engineering prowess.

To drive the SUB 300 and SUB 500's woofers, the engineers developed a completely new proprietary amplifier module which uses the advanced Dynaudio CEC (Cone Excursion Control) technology. The CEC circuitry takes all performance parameters of the drivers into account, and continuously monitors the incoming signal to derive the most efficient and optimum power delivery. As a result, the Dynaudio SUB 300 and SUB 500 subwoofers will play deeper, louder, while delivering higher dynamic range and lower distortion than subwoofers quoting much higher amplifier power ratings. For long-term reliability, the electronics are directly mounted to a massive heat-sink, which in turn is integrated into the solid, resonance absorbing MDF cabinet. Both single-ended RCA and fully balanced XLR inputs are included.

Fusing the metal baffle with a layer of dampening material (1) to the furniture-grade finish cabinet (2) further eliminates resonance, while both RCA and XLR in/outputs are found on its flexible back panel (3)



Coupling the driver to the cabinet follows Dynaudio's established design principle where a multi-layered sandwich construction is employed: Fusing the thick, stiff metal baffle to the MDF cabinet is a sheet of special dampening material.

This construction effectively eliminates any unwanted resonance and serves as the perfect foundation to optimize the fast and powerful transient signals from the drivers. The result is an extremely precise and dynamic transient response. The measures against resonance are taken inside the cabinet as well: adding carefully placed internal bracing provides the optimum balance between low-resonance rigidity and intelligent use of material.

Building upon Dynaudio's fine tradition of craftsmanship, the cabinet itself is available in variety of furniture grade finishes: With a choice of light Maple, traditional Cherry, rich Rosewood, or stylish Black Ash, both the SUB 300 and SUB 500 will easily integrate into any room or décor. The subwoofer drivers may be hidden from view by the elegantly sculpted black fabric grill, which attaches to the metal baffle by use of tiny magnets – a functional solution with aesthetic appeal.

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Technical Specifications

	SUB 500	SUB 300
Frequency Response	18-250 Hz (+/-3db)	25-250 Hz (+/-3db)
Amplifier Power	250 W / 4 Ohm	250 W / 5 Ohm
Crossover Frequencies	60/80/100 Hz	60/80/100 Hz
Phase adjustment	0°/90°/180°/270°	0°/90°/180°/270°
Input/Output	RCA (single-ended) XLR (balanced)	RCA (single-ended) XLR (balanced)
Drive Unit	12" (30cm), long throw	10" (24cm), long throw
Bass Principle	Closed	Ported
Power Consumption	max. 480 W	max. 480 W
Standby	5 W	5 W
Dimensions in mm		
W x H x D	360 x 378 x 568	320 x 338 x 466
Weight (net)	30,6 kg	19,1 kg

The SUB models are available in a choice of the finest real wood veneers: cherry (1), rosewood (2), maple (3) and black ash (4).

Please note that all shown images can not give a true impression of the finesse and structure of a Dynaudio cabinet finish.

